This document presents Jamaica’s Energy Report Card (ERC) for 2020. The ERC provides an overview of the energy sector performance in St. Vincent and the Grenadines. The ERC also includes energy efficiency, technical assistance, workforce, training, and capacity building information, subject to the availability of data.

This ERC includes data and information that was provided by government ministries, agencies, or departments, with responsibility for energy, utilities, and statistical offices. The data collected was supplemented by internet research, author calculations and inferences. This data is a collection from a variety of public sources and, as such, is for general information only. It is not intended for decision-making purposes, and therefore reliance placed on the information herein is strictly at the user’s risk.
**ENERGY SECTOR SUMMARY**

- **Population (Census/Projection):** 110,940
- **GDP (USD) Per Capita:** $7,457.51
- **Human Development Index (2019):** 0.738
- **National Development Plan:** National Economic & Social Development Plan (2013)
- **Climate Change Policy:** National Climate Change Policy of St. Vincent and the Grenadines (2019)
- **Renewable Energy (RE) Target:** 60.00% by 2020
- **Energy System Losses (%):** 7.16%
- **Total Oil Export (BOE) per day:** None
- **Electric Vehicle Stock:** 3
- **Electricity System Losses (%):** 7.16%
- **Electricity Use (kWh) Per Capita:** 1593.79
- **Energy Intensity (BTU/$):** Not Available
- **Total Installed RE (MW):** 8.80
- **Electricity System Losses (%):** 7.16%
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RENEWABLE ENERGY PERFORMANCE AGAINST TARGETS

16.54% 
2020 Performance

60% 
National Target by 2020

59% 
National Target by 2027
(Proposed by CARICOM - CSERMS Report)

PERCENTAGE %
0 10 20 30 40 50 60 70

60 59

2020 Performance

National Target by 2027
(Proposed by CARICOM - CSERMS Report)
Government Ministries, Departments and Agencies

- Ministry of Health Wellness [15]

Fuel Importers & Suppliers

- RUBIS Caribbean [16]
- SOL EC Ltd [17]
- PDV SVG Limited [18]

Electric Utility

- St. Vincent and the Grenadines Electricity Services Ltd. (VINLEC) [19]

Independent Power Producer

- Mustique Company Ltd (location on Mustique Island) [20]
- CCA LTD (location on Canouan Island) [21]

Electricity Regulator

- Cabinet of the Government of St. Vincent and the Grenadines and VINLEC self regulates [22]

Transportation

- Ministry of Tourism, Civil Aviation, Sustainable Development and Culture [23]

Others

- St. Vincent Geothermal Company [24]
POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK

POLICIES AND LEGISLATION RELEVANT TO THE ENERGY SECTOR

- National Energy Policy
- Environmental Management Act
- Geothermal Resources Development Act

Key Achievements: PLR Framework Timeline for Electricity Sector
- Electricity Supply Act (Agreement) Act
- Integrated Resource Plan
- Draft: Energy Policy and Energy Action Plan
- Draft: Interconnection Policy/Standards
- Net Billing/Net Metering
- Feed-in-tariff
- RE/EE Act
- RE Target
- Energy Policy and Energy Action Plan

Completion Years:
- 2009
- 2010
- 2017
- 2019

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POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK

POLICIES AND LEGISLATION RELEVANT TO THE TRANSPORTATION SECTOR

POLICIES

Electric Vehicle Policy (Draft) [31]

LEGISLATION & REGULATION

- **1999**
  - Customs Control and Management Act [32]

- **2006**
  - Value Added Tax Act [33]

- **2007**
  - Excise Tax Act No 16 [34]
**ELECTRICITY AND ENERGY EFFICIENCY**

### INSTALLED CAPACITY (MW)

- **Base Load**: 6.76 MW
- **System Peak Demand**: 11.32 MW
- **Total Generation**: 24.84 MW

### ENERGY CONSUMPTION (GWh)

- **Total Sales**: 11.08 GWh
- **Electricity System Losses**: 4.89 GWh
- **Parasitic Load**: 138.90 GWh

**Legend**:
- Blue: Total Sales
- Yellow: Electricity System Losses
- Green: Residential and Commercial/Distribution Generation (RE)
- Orange: Electrical Utility (RE)
- Green: Electrical Utility (Diesel)
RENEWABLE ENERGY RESOURCES (MW)

- Wind Energy: Installed 4.50, Potential 1,038.08
- Solar Energy: Installed 3.09, Potential 1,038.08
- Hydro Energy: Installed 5.71, Potential 7.50
- Geothermal Energy: Installed 900.00
- Biomass/WTE: Installed 3.50

Legend:
- Green: Installed
- Yellow: Potential
### ELECTRICITY TARIFFS

<table>
<thead>
<tr>
<th>RATE CLASS</th>
<th>MONTHLY CONSUMPTION /DEMAND (kWh)</th>
<th>TARIFF INCLUDING SURCHARGE / (US$/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENTIAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1.85</td>
</tr>
<tr>
<td></td>
<td>50 OR LESS</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>MORE THAN 50</td>
<td>0.18</td>
</tr>
<tr>
<td>COMMERCIAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 TO 17</td>
<td>5.55</td>
</tr>
<tr>
<td></td>
<td>18 TO 150,000</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td>MORE THAN 150,000, LESS THAN 200,000</td>
<td>0.19</td>
</tr>
<tr>
<td></td>
<td>MORE THAN 200,000</td>
<td>0.18</td>
</tr>
<tr>
<td>INDUSTRIAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>150,000 OR LESS</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>MORE THAN 150,000, LESS THAN 200,000</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>MORE THAN 200,000</td>
<td>0.14</td>
</tr>
<tr>
<td>STREETLIGHTS</td>
<td></td>
<td>0.21</td>
</tr>
</tbody>
</table>

The monthly Fuel Surcharge rate is applied to all kWh (per unit used) except for streetlights.
### Projects in the Pipeline

#### Technical Assistance Projects

<table>
<thead>
<tr>
<th>Donor Funding and Technical Assistance Landscape</th>
<th>Donor Organization &amp; Banks</th>
<th>Funding Awards ($US)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sustainable Energy for the Eastern Caribbean (SEEC)</strong>  - Energy Efficiency Solar PV project</td>
<td>CDB- Managing the fund, EUCIF-Grant, Department for International Development (DFID)-Grant, EIB-Loan, OCR-Loan</td>
<td>Not Available</td>
<td>2018-2021</td>
</tr>
<tr>
<td><strong>Solar PV Installations</strong></td>
<td>VINLEC, GEF Small grants, Government of SVG</td>
<td>Not Available</td>
<td>2012-2020</td>
</tr>
<tr>
<td><strong>Bequia Microgrid Project</strong></td>
<td>Ray and Tye Noorde Foundation/RMI and Carbon War room, UNDP-GEF</td>
<td>20 Million</td>
<td>2020</td>
</tr>
<tr>
<td><strong>Mayreau Microgrid Project</strong></td>
<td>IRENA/ADFD, DFID, CDB (Geo-smart initiative) - (concessional loan), EU-CIF, IDB(CTF, GEF), Government of SVG, Government of New Zealand</td>
<td>136 Million</td>
<td>2018-present</td>
</tr>
<tr>
<td><strong>SVG Geothermal Development Project</strong></td>
<td></td>
<td>Not Available</td>
<td>2013-2020</td>
</tr>
<tr>
<td><strong>Caribbean Energy Resilience Initiative</strong></td>
<td>World Bank</td>
<td>Not Available</td>
<td>2019-present</td>
</tr>
<tr>
<td><strong>Energy for Sustainable Development in Caribbean Building (ESD)</strong></td>
<td>UNEP/GEF</td>
<td>Not Available</td>
<td>2015-2020</td>
</tr>
</tbody>
</table>
## ENERGY EFFICIENCY PROJECTS

<table>
<thead>
<tr>
<th>Energy Efficiency Initiative</th>
<th>Consumption (KW) Ask if Estimated or Measured</th>
<th>Energy Efficiency Legislation or Regulations</th>
<th>Energy Service Companies (YES/NO)</th>
<th>Change in Old/Existing Infrastructure Expected in Upcoming Calendar Year (Number/Size)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STREET LIGHTING</strong></td>
<td>Approximate monthly consumption of remaining HPS lights in kWh: 57873.67</td>
<td>None</td>
<td>No</td>
<td>100% changeout expected by October 2021</td>
</tr>
<tr>
<td><strong>PUBLIC BUILDINGS</strong></td>
<td>Thirteen buildings were deemed eligible for the implementation of EE measures/retrofits.</td>
<td>None</td>
<td>No</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

## RENEWABLE ENERGY PROJECTS

<table>
<thead>
<tr>
<th>Renewable Energy Source</th>
<th>Resource and Projects Capacity (KW)</th>
<th>Development Partner</th>
<th>Total Estimated Cost</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLAR PHOTO-VOLTAIC</strong></td>
<td>6.2</td>
<td>None</td>
<td>Not Available</td>
<td>Government of SVG</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>CCCCC</td>
<td>Not Available</td>
<td>UNEP/GEF</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>CCCCC</td>
<td>Not Available</td>
<td>UNEP/GEF</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>Part of the SEEC project</td>
<td>Not Available</td>
<td>CDB</td>
</tr>
<tr>
<td><strong>GEOTHERMAL</strong></td>
<td>10</td>
<td>None</td>
<td>US$92 Million</td>
<td>Government of St. Vincent and the Grenadines and Reykjavik Geothermal</td>
</tr>
</tbody>
</table>
TERTIARY PROGRAMMES OFFERED

St. Vincent & the Grenadines Community College - Division of Arts, Sciences and General Studies

- Green Engineering (CAPE Subject)  
  https://svgcc.vc/division-programmes/dasgs

- Environmental Science (CAPE Subject)  
  https://svgcc.vc/division-programmes/dasgs

- AAS Electrical Engineering Technology
  https://svgcc.vc/programmes/full-time/associate/department-of-engineering#Electrical

Sector Skills Development Agency - Campden Park Technical Institute

- CVQ Level 1 - Electrical Installations  

- CVQ Level 2 - Electrical Installations

SVG Adult and Continuing Education - A division of the Ministry of Education

- CVQ Level 1 - Electrical Installations

OECS Sustainable Energy Unit

- North American Board of Certified Energy Practitioners (NABCEP)  
  Photovoltaic Associate Course (PVA)  

- North American Board of Certified Energy Practitioners (NABCEP)  
  Photovoltaic Systems Inspector Course (PVSI)  

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1This course is offered at multiple locations; Campden Park, Kingstown Technical Institute, Georgetown Technical Institute and Barrouallie Technical Institute
2There is a course called Renewable Energy Technology included in the programme.
TRANSPORTATION SECTOR

REGISTERED VEHICLES
AS OF 2020

- Cars: 18,382
- Buses: 2,636
- SUVs: 1,284
- Heavy Duty Equipment: 2,183
- Pick up Trucks: 2,490
- Buses: 1,434

There are also 3 Electric Vehicles

FUEL USE IN THE TRANSPORTATION SECTOR (kg)

- Gasoline (Road): 30,255,459
- Gas oils (other than diesel oil): 30,312,138
- Diesel (Road): 527
- Kerosene type jet fuel: 9,555
- Total: 60,567,597

There is also:
- Diesel (Road): 527
- Kerosene type jet fuel: 9,555
NATIONAL CLIMATE CHANGE POLICY OF SAINT VINCENT AND THE GRENADINES (2019) [12]

NATIONAL DETERMINED CONTRIBUTIONS:
60% by 2025 [13]

EMISSIONS REDUCTION TARGET:
Unconditional, economy-wide reduction in GHG of 22% by 2025 compared to its business as usual (BAU) scenario by 2025 [13]

PRIORITY SECTORS FOR NDCs [6]
1. Energy (including domestic transportation)
2. Industrial processes and product use
3. Agriculture
4. Land use, Land-use change and forestry [13]

NATIONAL COMMUNICATIONS (NC) TO THE UNFCCC:
Initial National Communication on Climate Change [35]
Second National Communication on Climate Change Saint Vincent and the Grenadines [36]
CLIMATE CHANGE FRAMEWORK

GREENHOUSE GAS INVENTORY [36]

<table>
<thead>
<tr>
<th>CATEGORIES</th>
<th>CO₂</th>
<th>CH₄</th>
<th>N₂O</th>
<th>NOₓ</th>
<th>CO</th>
<th>NMVOCs</th>
<th>SO₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY</td>
<td>94.057</td>
<td>0.004</td>
<td>0.001</td>
<td>0.019</td>
<td>0.006</td>
<td>0.292</td>
<td></td>
</tr>
<tr>
<td>ROAD TRANSPORTATION</td>
<td>3.150</td>
<td></td>
<td>0.018</td>
<td></td>
<td>0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRICULTURE/FORESTRY/FISHING</td>
<td></td>
<td>0.265</td>
<td>0.179</td>
<td>0.188</td>
<td></td>
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</tr>
<tr>
<td>WASTE</td>
<td>0.037</td>
<td>2.896</td>
<td>0.007</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Gg represents giga grams
REFERENCES